

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-97

ISSUING WASTE DISCHARGE REQUIREMENTS FOR:

OLIVER DE SILVA, INC.
DBA DIAMOND A RANCH QUARRY
SUNOL, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. Oliver de Silva, Inc., dba Diamond A Ranch Quarry, hereinafter called the discharger, by application date August 15, 1985, has applied for issuance of waste discharge requirements.
2. The discharger proposes to mine 123 million tons (49.2 million cubic yards) of basaltic rock for manufacture and retail sale of road base aggregate, asphalt and concrete over an 80 year period. Rock will be extracted by bulldozer excavation and blasting within a 680-acre leasehold on the 2,555-acre Apperson Ranch. Extracted rock will be transported by truck to the main 14-acre processing area for screening, crushing, storage, transfer to delivery trucks, and for the manufacture of asphaltic and cement concretes. All process waste from quarry activities including screening and crushing washwaters, air scrubber waste, and storm runoff from active mining areas, aggregate and chemical storage areas, loading areas, and asphalt and cement concrete batch plants will be drained to a 120-acre recycling pond. All recycling pond wastewaters will be reused on site. No direct discharge of process waste is planned, although there may be emergency storm discharge from the pond on occasion. Polymers or other flocculating agents will not be used. Sanitary wastes will be disposed of to an on-site septic system which will be regulated by Alameda County Health Care Services Agency.
3. On August 21, 1984, the County of Alameda, Board of Supervisors, approved Surface Mining Permit No. 17 (SMP-17) and Conditions of Approval for the proposed quarry operations. SMP-17 contains provisions for erosion and sedimentation control (which conform with the Board's Basin Plan policies) associated with site development and quarry operation, for site revegetation/reclamation, and for roadway runoff control for protection water quality in San Antonio Reservoir, a drinking water supply. The San Francisco Water Department which owns and operates San Antonio Reservoir has entered into an agreement with Alameda County for coordinated control of quarry operations where there are potentials for impacts on the reservoir.
4. The discharger proposes to commence site development in the spring of 1986 including construction of a 4.7-mile paved access road, extensive fill for building sites, and for plants and facilities in the processing area.

5. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for San Antonio Reservoir and its tributaries (a part of the Alameda Creek Watershed above Niles).
6. The existing and potential beneficial uses of San Antonio Reservoir and its tributaries are:
 - Non-Contact Water Recreation
 - Wildlife Habitat
 - Warm Fresh Water and Cold Fresh Water Habitats
 - Fish Spawning
 - Municipal and Domestic Supply

7. Effluent limitations of the Order are based on the Basin Plan, State Plans and Policies, projected facilities performance, and best engineering judgment.
8. The County of Alameda, Board of Supervisors, has certified a final environmental impact report for the project in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.).

In considering an appeal of the Alameda County Planning Commission's conditional approval of the project application, the County of Alameda, Board of Supervisors changed or altered and adopted conditions of approval for the project on August 21, 1984 as prescribed in its Resolution No. R-84-75 to in part mitigate identified moderate adverse environmental impacts on water quality. Resolution No. R-84-75 approved Surface Mining Permit No. 17 (SMP-17) and Exhibit C-Conditions of Approval as corrected on September 25, 1984. The changes, alterations, and conditions of approval regarding water quality impacts pertain to slope stability and landslide treatment during construction, revegetation and slope reclamation measures, monitoring of well yields in the Welch Creek Road area, and various plans and controls to prevent significant deterioration or contamination of water quality in San Antonio Reservoir and creeks draining the site.

The County of Alameda, Board of Supervisors made a finding of overriding considerations in approving SMP-17 as modified by the Conditions of Approval. It found that a variety of economic and social benefits outweighed the unavoidable moderate adverse impacts of soil erodability remaining after mitigation for erosion control and revegetation.

Provisions and specifications of these waste discharge requirements will mitigate or avoid the adverse environmental impacts of the project on water quality.

9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT Oliver de Silva, Inc., dba Diamond A Ranch Quarry, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. Direct discharge to surface streams of any process wastewater, runoff from active mining areas, or any recycling or settling pond (except under wet weather emergency conditions to be specified as part of Provision D.3.d of these requirements) is prohibited.
2. The discharge of soil, silt, clay, or earthen material of any kind from any activities into waters of the State in quantities deleterious to fish, wildlife, or other beneficial uses, is prohibited.
3. The discharge of polymers or other flocculating agents in process wastewaters to waters of the State is prohibited.

B. Effluent Limitations

1. Emergency discharge or overflow from any recycling or settling pond shall not exceed the following limits:

<u>Constituents</u>	<u>Units</u>	<u>Maximum Daily</u>
Settleable Solids	ml/l/hr	1.0
Turbidity	NTU	<10 percent greater than background

C. Receiving Water Specifications

1. The discharge of storm runoff from the subject property shall not, as a result of any quarrying, earth moving, manufacturing operation, or roadway runoff, cause the following conditions to exist in waters of the State at any place:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended or deposited oil or other products of petroleum origin;

- e. Toxic or deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either as created in the receiving waters at levels in excess of natural concentrations or the limits specified in the California Administrative Code Title 22, Chapter 15, particularly Tables 2, 3, 6, and 7, or as a result of biological concentration.
2. The discharge of storm runoff from the subject property as described in C.1 above shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

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|---------------------------|--|
| a. Dissolved oxygen | 5.0 mg/l minimum. Median of any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentration(s) than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen. |
| b. pH | Variation from natural ambient pH by more than 0.5 pH units. |
| c. Un-ionized ammonia | 0.025 mg/l as N Annual Median
0.4 mg/l as N Maximum |
| d. Total Dissolved Solids | 250 mg/l 90-day arithmetic mean
360 mg/l 90-day 90th percentile
500 mg/l daily maximum |
| e. Chlorides | 60 mg/l 90-day arithmetic mean
200 mg/l 90-day 90th percentile
250 mg/l daily maximum |

D. Provisions

1. The discharger shall comply with all sections of this Order immediately upon adoption.
2. Neither the treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code.
3. The discharger shall file with the Board the following technical reports within 90 days of adoption of this Order:
 - a. Drainage plans for the access road, processing area, and mining areas;

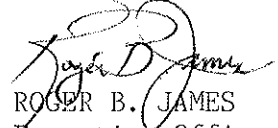
- b. An erosion and sedimentation control plan consistent with Surface Mining Permit No. 17 issued by the County of Alameda;
- c. A site revegetation/reclamation plan consistent with Surface Mining Permit No. 17 issued by the County of Alameda;
- d. A water quality maintenance and monitoring plan for San Antonio Reservoir and its tributaries consistent with the policies of the San Francisco Water Department and the County of Alameda's SMP-17; the monitoring plan shall establish pre-mining activity (or background) water quality conditions in the reservoir and tributary streams;
- e. A chemical storage and spill containment and contingency plan for the site as required by Board Resolution No. 74-10;
- f. Procedures and criteria for emergency discharge from the recycling and settling ponds; and
- g. A time schedule for construction and development for the 80-year quarry operation and implementation of water quality protection measures contained in 3a through 3f above.

Upon receipt of the technical reports the Executive Officer will review the reports for satisfactory compliance with the requirements of this Order and will bring this Order and the reports before the Board to approve the reports and modify conditions which it deems necessary to prevent degradation of water quality of San Antonio Reservoir and its tributaries in accordance with Section 13263 of the California Water Code. Such conditions may be incorporated as part of this Order, upon notice to the discharger and subsequent public hearing.

- 4. The discharger shall submit a Quarry Operations Report every three years following adoption of this Order which summarizes the past and future development activities, updates the development schedule, and discusses compliance of the quarry operation with this Order. The first report shall be due on September 18, 1988.
- 5. The discharger shall review and update annually its chemical storage and spill containment and contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the discharger has failed to develop and/or implement a contingency plan will be basis for the Board considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.
- 6. The discharger shall comply with the self-monitoring program as approved by the Executive Officer based on the water quality monitoring plan submitted in compliance with Provision 3.d. above.
- 7. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977, except items 2, 3, and 4.

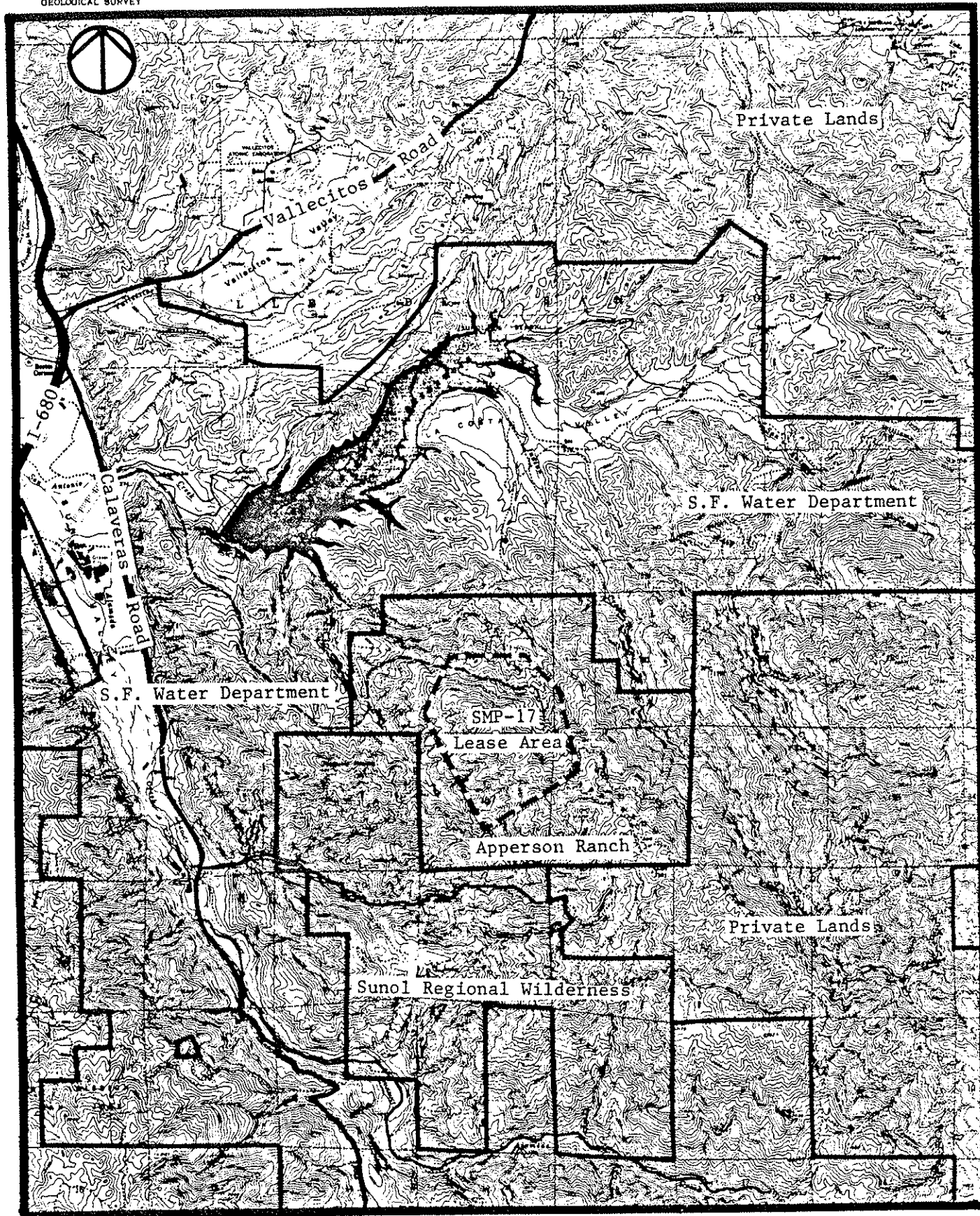
8. In the event of any change of control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on September 18, 1985.


ROGER B. JAMES
Executive Officer

Attachments:

Standard Provisions & Reporting
Requirements, April 1977
Resolution No. 74-10
Self-Monitoring Program (to be issued)
California Administrative Code, Title 22,
Chapter 15
California Water Code, Section 13263
Location Map



VICINITY MAP
SMP-17

ALAMEDA COUNTY
PLANNING DEPARTMENT
JANUARY, 1984